INDEX OF AUTHORS

Page numbers beginning with S denote articles in the April supplement.

Abbondanzo, Susan L., 669 Abdel-Razeq, Hikmat, 16 Abgrall, Jean-François, 748 Adcock, Dorothy M., 595 Akhtar, Muhammad S., 387 Akikusa, Bunshiro, 62 Allasia, Claude, 431 Alvarez, Ronald D., 444 Amadori, Sergio, 24 Ambiru, Satoshi, 62 Amiral, Jean, 748 Andrac, Lucile, 431 Andriko, Joann W., 669 Aquilina, Piera, 24 Arber, Daniel A., 211 Aronica, Germano, 24 Artini, Marco, 600 Ascoli, Valeria, 600 ASCP Susceptibility Testing Group, 1996, 144 Askin, Frederic B., S23

Astion, Michael L., 514

Baker, Sandra J., 540 Baker, Stephen P., 733 Balique, J. G., 286 Bandarenko, Nicholas, 743 Banner, Barbara F., 733 Barberis, Massimo, 411 Bardales, Ricardo H., 540 Barney, Philip L., 110 Barrowcliffe, Trevor W., 196 Bartholoma, Nadine Y., 335 Baskin, Leland, 585 Beeley, Peggy, 268 Bergman, Simon, 309 Berthelot, P., 286 Bhattacharya, Mondira, 24 Bienkowski, Robert S., 221 Billett, Henny H., 221 Blackwell, Walter, 268 Blair, Abbe J., 387 Bonetto, Sara, 411 Böni, Roland, 565 Bonnier, Pascal, 431 Boucheron, S., 286 Bragg, Sandra L., 634 Brainard, C. Paige, 96 Brecher, Mark E., 743 Bressollette, Luc, 748 Brigden, Malcolm L., 589 Bronner, Mary P., 404 Broudy, Virginia, 514 Brown, Michael S., 39

Brynes, Russell K., 211

Buchino, John J., S4

Buffolino, Sonia, 24 Bujan, Willem, 618 Buono, J. P., 286 Buss, David H., 294 Butmarc, Janet R., 682

Cajulis, Ricardo S., 315 Cannistraro, Paul A., 392 Cannone, Maria, 411 Cantonetti, Maria, 24 Carter, Cedric J., 764 Casonato, Alessandra, 347 Cavazzana, Andrea, 565 Cavuoti, Dominick, 585 Chandler, Francis W., 1 Chang, Judy, 274 Chang, Karen L., 211 Charpin, Colette, 431 Chen, Li-Mien, 712 Chipponi, J., 286 Choux, Régine, 431 Cibas, Edmund S., 738 Clavier, Jean, 748 Coffin, Cheryl M., S38 Cohen, Cynthia, 69 Cohen, Patti L., 32 Colby, Thomas V., 101 Conran, Richard M., S73 Corless, Christopher L., 577 Cr nish, Nancy, 399 Costa, Michael J., 173 Costanzi, Giulio, 411 Cox, M. Christina, 24 Cuilleret, J., 286 Curiel, David T., 444 Curti, Brendan D., 90 Curtis, Janet D., 514

Dasgupta, Amitava, 268, 527
Davis, John R., 96, 320
Dechelotte, P., 286
De Frias, Denise V. S., 315
DeGoey, Steven R., 190
Dehner, Louis P., 662, S38
Del Poeta, Giovanni, 24
DeRose, Patricia B., 69
Dewald, Gordon W., 32
Dickerman, Alexandra, 173
Dietrich, Stephen, 324
Dodd, Leslie G., 439
Doyle, Cuimin T., 521
Dunphy, Cherie H., 625
Duray, Paul H., 90

E Ebert, Ray F., 338 Echaves, Stephen A., 338 Ehninger, Gerhard, 226 Emmanoulides, Christos, 689 England, Barry G., 533 Enomoto, Takayuki, 153 Escoffre-Barbe, Martine, 748 Eskens, Joan L., 153 Ettinger, Bruce, 274 Etzell, Joan, 754 European Concerted Action on Anticoagulation, 196

Farhi, Diane C., 675 Fend, Falco, 279 Feng, Janine D., 320 Fenton, Robert G., 90 Fleming, Mark D., 505 Flora, Ken, 577 Forbes, Betty A., 335 Frankel, Matthew, 778 Franzetti, Fabio, 411 Fritsch, Peter, 279

Gabl, Christoph, 279 Gaddipati, Ramakrishna V., 163 Garcia, Stéphane, 431 Garratty, George, 769 Geisen, Francoise, 279 Geisinger, Kim R., 294 Genest, David R., 738 Geradts, Joseph, 669 Gerhard, Glenn S., 379 Gernsheimer, Terry, 514 Gersell, Deborah J., 127 Giacherio, Donald A., 533 Gillis, Thomas P., 642 Girolami, Antonio, 347 Glackin, Carlotta, 618 Gochman, Robert F., 221 Goldstein, Neal S., 727 Gombos, Michal M., 221 Gómez-Navarro, Jesús, 444 Goodman, Max L., 309 Gori, Andrea, 411 Gottfried, Eugene L., 338, 754 Gottfried, Marcia, 439 Granter, Scott R., 738 Greenebaum, Ellen, 169, 549 Greil, Richard, 279 Grimaux, Marc, 748 Gross, Cindy, 577

H Hajdu, Steven I., 492 Hall, Geraldine S., 399 Hansen, Christian, 173 Hanson, Curtis A., 32 Hawkins, Edith P., S82 Hernicks, Walter H., 533 Herold, Manfred, 279 Hess, Jay L., 3, 251, S9 Ho, Samuel B., 302 Hoeltge, Gerald, 16 Hoffman, Suzanne M., 379 Hoffmann, Douglas G., 689 Hoke, Carolyn, 274 Holden, Joseph A., 39 Honda, Takayuki, 423 Houghton, David, 196 Howell, David N., 45 Hoyer, James D., 32 Hudoff, Sue, 371 Humphrey, Peter A., 416, 695 Huston, Butch M., 743

I Ill, Patrick, 748 Ingle, Rajendrakumar, 309 Intersociety Working Group for Cytology Technologies, 10 Ishii, Keiko, 423 Itoh, Hiroshi, 62

Jaffe, Elaine S., 90 Janoff, Edward N., 55 Jaye, David L., 634 Jennings, Timothy A., 309 Jespersen, Jørgen, 196 Jialal, Ishwarlal, 585 Johnston, Marilyn J., 589

Kabakibi, Ayman, 392 Kadin, Marshall E., 682 Kalaycio, Matt, 16 Kaleem, Zahid, 695 Kallakury, Bhaskar V. S., 163 Katsuyama, Tsutomu, 423 Katzmann, Jerry A., 712 Keren, David F., 262 Keys, Henry M., 163 Khalidi, Hasan S., 211 Kim, Young S., 302 Kimlinger, Teresa K., 712 King, David D., 96 King, Thomas C., 387 Kingma, Douglas W., 90 Kirkegaard, Lewis J., 69 Kiska, Deanna L., 335 Knapp, Cynthia C., 399 Koeffler, H. Phillip, 778 Kondo, Yoichiro, 62 Koo, Sophia, 618 Kornstein, Michael J., 722 Koss, Leopold G., 549 Kourea, Helen P., 682 Kressin, David C., 595 Kuba, Tatsuru, 704 Kubo, Keishi, 423 Kurtin, Paul J., 32

L Lai, Raymond, 508 Lamps, Laura W., 404 Laposata, Michael, 392 Lavaut, Marie-Noëlle, 431

INDEX OF AUTHORS

Page numbers beginning with S denote articles in the April supplement.

Abbondanzo, Susan L., 669 Abdel-Razeq, Hikmat, 16 Abgrall, Jean-François, 748 Adcock, Dorothy M., 595 Akhtar, Muhammad S., 387 Akikusa, Bunshiro, 62 Allasia, Claude, 431 Alvarez, Ronald D., 444 Amadori, Sergio, 24 Ambiru, Satoshi, 62 Amiral, Jean, 748 Andrac, Lucile, 431 Andriko, Joann W., 669 Aquilina, Piera, 24 Arber, Daniel A., 211 Aronica, Germano, 24 Artini, Marco, 600 Ascoli, Valeria, 600 ASCP Susceptibility Testing Group, 1996, 144 Askin, Frederic B., S23

Astion, Michael L., 514

Baker, Sandra J., 540 Baker, Stephen P., 733 Balique, J. G., 286 Bandarenko, Nicholas, 743 Banner, Barbara F., 733 Barberis, Massimo, 411 Bardales, Ricardo H., 540 Barney, Philip L., 110 Barrowcliffe, Trevor W., 196 Bartholoma, Nadine Y., 335 Baskin, Leland, 585 Beeley, Peggy, 268 Bergman, Simon, 309 Berthelot, P., 286 Bhattacharya, Mondira, 24 Bienkowski, Robert S., 221 Billett, Henny H., 221 Blackwell, Walter, 268 Blair, Abbe J., 387 Bonetto, Sara, 411 Böni, Roland, 565 Bonnier, Pascal, 431 Boucheron, S., 286 Bragg, Sandra L., 634 Brainard, C. Paige, 96 Brecher, Mark E., 743 Bressollette, Luc, 748 Brigden, Malcolm L., 589 Bronner, Mary P., 404 Broudy, Virginia, 514 Brown, Michael S., 39

Brynes, Russell K., 211

Buchino, John J., S4

Buffolino, Sonia, 24 Bujan, Willem, 618 Buono, J. P., 286 Buss, David H., 294 Butmarc, Janet R., 682

Cajulis, Ricardo S., 315 Cannistraro, Paul A., 392 Cannone, Maria, 411 Cantonetti, Maria, 24 Carter, Cedric J., 764 Casonato, Alessandra, 347 Cavazzana, Andrea, 565 Cavuoti, Dominick, 585 Chandler, Francis W., 1 Chang, Judy, 274 Chang, Karen L., 211 Charpin, Colette, 431 Chen, Li-Mien, 712 Chipponi, J., 286 Choux, Régine, 431 Cibas, Edmund S., 738 Clavier, Jean, 748 Coffin, Cheryl M., S38 Cohen, Cynthia, 69 Cohen, Patti L., 32 Colby, Thomas V., 101 Conran, Richard M., S73 Corless, Christopher L., 577 Cr nish, Nancy, 399 Costa, Michael J., 173 Costanzi, Giulio, 411 Cox, M. Christina, 24 Cuilleret, J., 286 Curiel, David T., 444 Curti, Brendan D., 90 Curtis, Janet D., 514

Dasgupta, Amitava, 268, 527
Davis, John R., 96, 320
Dechelotte, P., 286
De Frias, Denise V. S., 315
DeGoey, Steven R., 190
Dehner, Louis P., 662, S38
Del Poeta, Giovanni, 24
DeRose, Patricia B., 69
Dewald, Gordon W., 32
Dickerman, Alexandra, 173
Dietrich, Stephen, 324
Dodd, Leslie G., 439
Doyle, Cuimin T., 521
Dunphy, Cherie H., 625
Duray, Paul H., 90

E Ebert, Ray F., 338 Echaves, Stephen A., 338 Ehninger, Gerhard, 226 Emmanoulides, Christos, 689 England, Barry G., 533 Enomoto, Takayuki, 153 Escoffre-Barbe, Martine, 748 Eskens, Joan L., 153 Ettinger, Bruce, 274 Etzell, Joan, 754 European Concerted Action on Anticoagulation, 196

Farhi, Diane C., 675 Fend, Falco, 279 Feng, Janine D., 320 Fenton, Robert G., 90 Fleming, Mark D., 505 Flora, Ken, 577 Forbes, Betty A., 335 Frankel, Matthew, 778 Franzetti, Fabio, 411 Fritsch, Peter, 279

Gabl, Christoph, 279 Gaddipati, Ramakrishna V., 163 Garcia, Stéphane, 431 Garratty, George, 769 Geisen, Francoise, 279 Geisinger, Kim R., 294 Genest, David R., 738 Geradts, Joseph, 669 Gerhard, Glenn S., 379 Gernsheimer, Terry, 514 Gersell, Deborah J., 127 Giacherio, Donald A., 533 Gillis, Thomas P., 642 Girolami, Antonio, 347 Glackin, Carlotta, 618 Gochman, Robert F., 221 Goldstein, Neal S., 727 Gombos, Michal M., 221 Gómez-Navarro, Jesús, 444 Goodman, Max L., 309 Gori, Andrea, 411 Gottfried, Eugene L., 338, 754 Gottfried, Marcia, 439 Granter, Scott R., 738 Greenebaum, Ellen, 169, 549 Greil, Richard, 279 Grimaux, Marc, 748 Gross, Cindy, 577

H Hajdu, Steven I., 492 Hall, Geraldine S., 399 Hansen, Christian, 173 Hanson, Curtis A., 32 Hawkins, Edith P., S82 Hernicks, Walter H., 533 Herold, Manfred, 279 Hess, Jay L., 3, 251, S9 Ho, Samuel B., 302 Hoeltge, Gerald, 16 Hoffman, Suzanne M., 379 Hoffmann, Douglas G., 689 Hoke, Carolyn, 274 Holden, Joseph A., 39 Honda, Takayuki, 423 Houghton, David, 196 Howell, David N., 45 Hoyer, James D., 32 Hudoff, Sue, 371 Humphrey, Peter A., 416, 695 Huston, Butch M., 743

I Ill, Patrick, 748 Ingle, Rajendrakumar, 309 Intersociety Working Group for Cytology Technologies, 10 Ishii, Keiko, 423 Itoh, Hiroshi, 62

Jaffe, Elaine S., 90 Janoff, Edward N., 55 Jaye, David L., 634 Jennings, Timothy A., 309 Jespersen, Jørgen, 196 Jialal, Ishwarlal, 585 Johnston, Marilyn J., 589

Kabakibi, Ayman, 392 Kadin, Marshall E., 682 Kalaycio, Matt, 16 Kaleem, Zahid, 695 Kallakury, Bhaskar V. S., 163 Katsuyama, Tsutomu, 423 Katzmann, Jerry A., 712 Keren, David F., 262 Keys, Henry M., 163 Khalidi, Hasan S., 211 Kim, Young S., 302 Kimlinger, Teresa K., 712 King, David D., 96 King, Thomas C., 387 Kingma, Douglas W., 90 Kirkegaard, Lewis J., 69 Kiska, Deanna L., 335 Knapp, Cynthia C., 399 Koeffler, H. Phillip, 778 Kondo, Yoichiro, 62 Koo, Sophia, 618 Kornstein, Michael J., 722 Koss, Leopold G., 549 Kourea, Helen P., 682 Kressin, David C., 595 Kuba, Tatsuru, 704 Kubo, Keishi, 423 Kurtin, Paul J., 32

L Lai, Raymond, 508 Lamps, Laura W., 404 Laposata, Michael, 392 Lavaut, Marie-Noëlle, 431

Lazcano, Oscar, 712 LeCrone, Carol N., 514 Lee, Hsiang-Kuang, S4 Lee, Kenneth R., 738 Leech, Brenda F., 764 Le Moigne, Emmanuelle, 748 Leroyer, Christophe, 748 Leslie, Susan, 754 Levi, Edi, 682 Levrero, Massimo, 600 Li, Chin-Yang, 712 Liotta, Lance A., 565 Liu, Katharine, 45 Lloyd, Ricardo V., 245 Lo Coco, Francesco, 600 Lucas, Joel G., 571 Ludwig, Margaret D., 399 Lyden, Peggy, 371

M

Macon, William R., 610 Maffei, Laura, 24 Mandel, Lynn, 514 Mani, Anju, 727 Marchetti, Giulia, 411 Marlar, Richard A., 595 Marsh, William L., Jr., 571 Martelli, Maurizio, 600 Martini, François, 431 Maseelall, Priya, 558 Masi, Mario, 24 Matsuzaki, Housei, 181 Maynard, Karen K., 96 McCarter, Yvette S., 631 McCarthy, Tommie V., 521 McGee, Robert S., 294 McGregor, James A., 153 McLemore, Jerri L., 268 McPherson, Richard A., 123 Medeiros, L. Jeffrey, 211, 618 Merino, Maria J., 565 Mertz, Howard R., 404 Meyerson, Howard J., 675 Miles, Steven, 778 Miller, Hugh S., 320 Miller, Michael L., 16 Miller, Wilson H., Jr., 205 Mills, Stacey E., 75 Minter, Lori J., 738 Miyazaki, Masaru, 62 Mölle, Matthias, 226 Monczak, Yuri, 205 Monterroso, Victoria, 618 Mooney, Eoghan E., 439 Moore, S. Breanndan, 190 Morgenstern, Nora, 549 Morrisroe, Kevin, 268 Moser, Stephen A., 634 Mosher, Laura, 324 Mosijczuk, Askold D., S1 Mosnier, J. F., 286 Mottier, Dominique, 748 Mullins, Richard E., 371

Mundy, Lesley S., 55 Mundy, Linda M., 367 Murray, Charlotte, 514 Myers, Jeffrey L., 331

N

Naeim, Faramarz, 689
Naik, Narayan, 558
Nakagawa, Koji, 62
Nakajima, Nobuyuki, 62
Nakajima, Nobuyuki, 62
Nakamura, Naoshi, 423
Nakanuma, Yasuni, 302
Nasr, Sherif, 205
Nebuloni, Manuela, 411
Negro, Francesco, 600
Nelson, Rendon C., 439
Neofotistos, Demetra, 758
Ng, Valerie L., 338, 754
Niemann, Theodore H., 571
Nonent, Michel, 748
Nowak, Ralf, 226

O Ockner, Daniel M., 75 Oelschlägel, Uta, 226 Oesterling, Joseph E., 533 Ogawa, Michio, 181 Oger, Emmanuel, 748 Ohtsuka, Masayuki, 62 Okayasu, Isao, 704 Ordóñez, Nelson G., 85 Oropeza, Maria, 758 O'Sullivan, Maureen J., 521 Ota, Hiroyoshi, 423

p

Parker, Brent, 634 Patterson, Kathleen, S53 Paul, William S., 324 Penerian, Germaine, 274 Perfect, John R., 45 Perkins, Sherrie L., 39 Perlman, Elizabeth I., S23 Perret, A. Gentil, 286 Pettay, Jim, 16 Pilch, Ben Z., 309 Poller, Leon, 196 Pontara, Elena, 347 Popovsky, Mark A., 659 Powers, Celeste N., 540 Press, Richard D., 577 Procop, Gary W., 331 Purdon, Thomas F., 96

R

Rabkin, John M., 577 Rahn, Mark P., 39 Range, Ursula, 226 Ratkiewicz, Irene N., 631 Reisberg, Boris E., 324 Reneke, Johanna, 754 Reyes, Adriana O., 416 Ritter, Jon H., 75 Roberts, Glenn D., 331 Rosai, Juan, 722 Rosen, Peter A., 689 Rosenthal, Nancy S., 675 Ross, Jeffrey S., 163, 309

S

Said, Jonathan, 778 Sala, Elena, 411 Salhany, Kevin E., 610 Sallash, Gretchen, 205 Samoszuk, Michael K., 205 Sasaki, Motoko, 302 Savage, Duncan, 163 Scalzo, David A., 163 Scarpellini, Paolo, 411 Schaad, Doug, 514 Schaefer, Robert F., 540 Schell, Wiley A., 45 Schreiber, Klaus, 549 Schreiber, William E., 511 Schwebke, Kay E., 55 Scollard, David M., 642 Scott, Margie A., 404 Scudder, Sidney A., 173 Sepp, Norbert, 279 Shanholtzer, Carol J., 55 Sheehan, Christine E., 163 Shimada, Shinya, 181 Shimizu, Hiroaki, 62 Shinoda, Hiroshi, 704 Shroyer, A. Laurie, 153 Shrover, Kenneth R., 153 Sibley, M. Andrew, 96 Siddiqui, Farida, 324 Siegal, Gene P., 444 Simpson, Donald D., 540 Simsir, Aylin, 169 Slovak, Marilyn L., 211 Sng, Li-Hwei, 399 Solomon, Harvey M., 371 Soria, Claudine, 748 Spies, Jessica, 527 Spitzer, Eric D., 248 Sreenan, Joseph J., 16 Stanley, Michael W., 6, 540 Staudacher, Christine, 279 Stead, Andrew G., 338 Steele, Cindy T., 540 Steffee, Craig H., 294 Stocker, J. Thomas, S1, S67 Su, Lyndon D., 262 Suhrland, Mark, 549 Swanson, Paul E., 75, 695 Swanson, Richard S., 733 Sweeney, Joseph D., 387 Szczepiorkowski, Zbigniew M., 392

7

Tahir-Kheli, Naveed, 549 Takahashi, Eiko, 704 Tang, Yi-Wei, 331 Tbakhi, Abdelghani, 16
Tham, Kyi T., 404
Thompson, L. Chesney, 153
Thompson, Pam, 371
Thornton, Karla, 268
Thrombosis Interest Group of Canada, 589
Topar, Gerda, 279
Tripodi, Armando, 196
Tsang, Patricia, 169
Ts'ao, Chung-Hsin, 758
Tsuruta, Junji, 181
Tubbs, Raymond R., 16
Tucker, Steven J., 689
Tynan, Wendy, 205

U Uno, Keisuke, 181

.

Vago, Luca, 411
Valdes-Camin, Rafael, 338
Vamvakas, Eleftherios C., 92
Van den Besselaar, Anton M.
H. P., 196
Venditti, Adriano, 24
Verbeek, Walter, 778
Vesoulis, Z., 558
Vnencak-Jones, Cindy L., 404
Vollmer, Robin T., 695
Vortmeyer, Alexander O., 90, 565

W

Waites, Ken B., 634 Warren, John R., 324 Washington, John A., 399 Watts, John C., 1 Weiss, Lawrence M., 508 Wener, Mark H., 514 Whitehouse, Rob, 733 Wick, Mark R., 75, 355 Willard, Keith E., 55 Williams, Diana L., 642 Williams, Eliot C., 379 Wojno, Kirk J., 533 Wood, Brent, 514 Woodruff, Ralph D., 294

Y

Yamashita, Kazuya, 704 Yao, Bin, 69 Yilmaz, Asli G., 571 Yu, Gordon H., 315

2

Zerbinati, Patrizia, 347 Zheng, Xiaotian, 331 Zhou, Yuehua, 618 Zhuang, Zhengping, 565 Zucchetto, Alessandro, 347 Zuppan, Craig W., S31 Zutter, Mary M., S9

INDEX OF TITLES

Page numbers beginning with S denote articles in the April supplement.

ANATOMIC PATHOLOGY

Case Reports

Vernix Caseosa Peritonitis: Report of Two Cases With Antenatal Onset

John R. Davis, Hugh S. Miller, and Janine D. Feng, 320

Original Articles

Additional Mimics of Mucinous Mammary Carcinoma: Fibroepithelial Lesions

Aylin Simsir, Patricia Tsang, and Ellen Greenebaum, 169
Adenocarcinoma In Situ in Cervical Smears With a Small
Cell (Endometrioid) Pattern: Distinction From Cells
Directly Sampled From the Upper Endocervical Canal or
Lower Segment of the Endometrium
Kenneth R. Lee, David R. Genest, Lori J. Minter, Scott R.
Granter, and Edmund S. Cibas, 738

CD5 Labeling of Thymic Carcinomas and Other Nonlymphoid Neoplasms

Michael J. Kornstein and Juan Rosai, 722

CD44 Expression in Sinonasal Inverted Papillomas and Associated Squamous Cell Carcinoma

Rajendrakumar Ingle, Timothy A. Jennings, Max L. Goodman, Ben Z. Pilch, Simon Bergman, and Jeffrey S. Ross, 309

Cell Proliferation Rate by MIB-1 Immunohistochemistry Predicts Postradiation Recurrence in Prostatic Adenocarcinomas

David A. Scalzo, Bhaskar V.S. Kallakury, Ramakrishna V. Gaddipati, Christine E. Sheehan, Henry M. Keys, Duncan Savage, and Jeffrey S. Ross, 163

Cholangiocarcinomas Arising in Cirrhosis and Combined Hepatocellular-Cholangiocellular Carcinomas Share Apomucin Profiles

Motoko Sasaki, Yasuni Nakanuma, Samuel B. Ho, and Young S. Kim, 302

Clinicopathologic Significance of Transitional Cell Carcinoma Pattern in Nonlocalized Ovarian Epithelial Tumors (Stages 2–4)

Michael J. Costa, Christian Hansen, Alexandra Dickerman, and Sidney A. Scudder, 173

Cytomorphologic Features of Sclerosing Mucoepidermoid Carcinoma of the Thyroid Gland With Eosinophilia, The Kim R. Geisinger, Craig H. Steffee, Robert S. McGee, Ralph D. Woodruff, and David H. Buss, 294

Detection of K-ras Point Mutations in the Supernatants of Peritoneal and Pleural Effusions for Diagnosis Complementary to Cytologic Examination Kazuya Yamashita, Tatsuru Kuba, Hiroshi Shinoda, Eiko

Takahashi, and Isao Okayasu, 704

Diagnostic Effect of Complete Histologic Sampling of Prostate Needle Biopsy Specimens Adriana O. Reyes and Peter A. Humphrey, 416

Diagnostic Value of Brush Cytology in the Diagnosis of Duodenal, Biliary, and Ampullary Neoplasms Ricardo H. Bardales, Michael W. Stanley, Donald D. Simpson, Sandra J. Baker, Cindy T. Steele, Robert F. Schaefer, and Celeste N. Powers, 540

Effects of Thermal Endometrial Ablation: Clinicopathologic Correlations

John R. Davis, Karen K. Maynard, C. Paige Brainard, Thomas F. Purdon, M. Andrew Sibley, and David D. King, 96

Evaluation of Esophageal Cytology Using a Neural Net-Based Interactive Scanning System (the PAPNET System): Its Possible Role in Screening for Esophageal and Gastric Carcinoma

Leopold G. Koss, Nora Morgenstern, Naveed Tahir-Kheli, Mark Suhrland, Klaus Schreiber, and Ellen Greenebaum, 549

Fine-Needle Aspiration of Gastrointestinal Stromal Tumors Leslie G. Dodd, Rendon C. Nelson, Eoghan E. Mooney, and Marcia Gottfried, 439

Genetic Changes Associated With Primary Merkel Cell Carcinoma

Alexander O. Vortmeyer, Maria J. Merino, Roland Böni, Lance A. Liotta, Andrea Cavazzana, and Zhengping Zhuang, 565

Half a Node or a Whole Node, A: A Comparison of Methods for Submitting Lymph Nodes Theodore H. Niemann, Asli G. Yilmaz, William L.

Marsh, Jr, and Joel G. Lucas, 571 Hepatobiliary Lymphoepithelioma-Like Carcinoma

Associated With Epstein-Barr Virus Alexander O. Vortmeyer, Douglas W. Kingma, Robert G. Fenton, Brendan D. Curti, Elaine S. Jaffe, and Paul H. Duray, 90

Histopathologic Changes Are Not Specific for Diagnosis of Gastric Antral Vascular Ectasia (GAVE) Syndrome: A Review of the Pathogenesis and a Comparative Image Analysis Morphometric Study of GAVE Syndrome and Gastric Hyperplastic Polyps

Z. Vesoulis, Narayan Naik, and Priya Maseelall, 558 Homologous Carcinomas of the Breasts, Skin, and Salivary Glands: A Histologic and Immunohistochemical Comparison of Ductal Mammary Carcinoma, Ductal Sweat Gland Carcinoma, and Salivary Duct Carcinoma

Mark R. Wick, Daniel M. Ockner, Stacey E. Mills, Jon H. Ritter, and Paul E. Swanson, 75

Image Cytometric Measurement of Nuclear Proliferation Markers (MIB-1, PCNA) in Astrocytomas: Prognostic Significance Lewis J. Kirkegaard, Patricia B. Derose, Bin Yao, and Cynthia Cohen, 69

Mucinous Bronchioloalveolar Carcinoma With Organoid Differentiation Simulating the Pyloric Mucosa of the Stomach: Clinicopathologic, Histochemical, and Immunohistochemical Analysis

Takayuki Honda, Hiroyoshi Ota, Keiko Ishii, Naoshi Nakamura, Keishi Kubo, and Tsutomu Katsuyama, 423 Novel Subtyping of Intestinal Metaplasia in the Human

Stomach: Brain-Type Glycogen Phosphorylase Expression in the Proliferative Zone and Its Relationship With Carcinogenesis

Housei Matsuzaki, Shinya Shimada, Keisuke Uno, Junji Tsuruta, and Michio Ogawa, 181

Prostatic Adenocarcinoma With Atrophic Features: A Study of 202 Consecutive Completely Embedded Radical Prostatectomy Specimens

Zahid Kaleem, Paul E. Swanson, Robin T. Vollmer, and Peter A. Humphrey, 695

Reduced E-Cadherin Immunohistochemical Expression in Node-Negative Breast Carcinomas Correlates With 10-Year Survival

Colette Charpin, Stéphane Garcia, Pascal Bonnier, François Martini, Lucile Andrac, Régine Choux, Marie-Noëlle Lavaut, and Claude Allasia, 431

Relationship Between MIB-1 Proliferation Index and Outcome in Pancreatic Neuroendocrine Tumors, The A. Gentil Perret, J. F. Mosnier, J. P. Buono, P. Berthelot, J. Chipponi, J. G. Balique, J. Cuilleret, P. Dechelotte, and S. Boucheron, 286

Role of Conventional Cytology, Immunocytochemistry, and Flow Cytometric DNA Ploidy in the Evaluation of Body Cavity Fluids, The: A Prospective Study of 52 Patients Li-Mien Chen, Oscar Lazcano, Jerry A. Katzmann, Teresa K. Kimlinger, and Chin-Yang Li, 712

Routes of Hepatic Metastasis of Gallbladder Carcinoma Masayuki Ohtsuka, Masaru Miyazaki, Hiroshi Itoh, Koji Nakagawa, Satoshi Ambiru, Hiroaki Shimizu, Nobuyuki Nakajima, Bunshiro Akikusa, and Yoichiro Kondo, 62

Status and Distance of Cone Biopsy Margins as a Predictor of Excision Adequacy for Endocervical Adenocarcinoma In Situ, The

Neal S. Goldstein and Anju Mani, 727

Telomerase Expression in Normal Epithelium, Reactive Atypia, Squamous Dysplasia, and Squamous Cell Carcinoma of the Uterine Cervix

Kenneth R. Shroyer, L. Chesney Thompson, Takayuki Enomoto, Joan L. Eskens, A. Laurie Shroyer, and James A. McGregor, 153

Tumor Angiogenesis in Stage II Colorectal Carcinoma: Association With Survival

Barbara F. Banner, Rob Whitehouse, Stephen P. Baker, and Richard S. Swanson, 733

Tumor Cell (Dys)cohesion as a Prognostic Factor in Aspirate Smears of Breast Carcinoma Gordon H. Yu, Ricardo S. Cajulis, and Denise V. S. De Frias, 315

Value of the Ber-EP4 Antibody in Differentiating Epithelial Pleural Mesothelioma From Adenocarcinoma: The M.D. Anderson Experience and a Critical Review of the Literature Nelson G. Ordóñez, 85

Review Articles

Bronchiolitis: Pathologic Considerations Thomas V. Colby, 101

Gene Therapy: Ovarian Carcinoma as the Paradigm Jesús Gómez-Navarro, Gene P. Siegal, Ronald D. Alvarez, and David T. Curiel, 444

CLINICAL CHEMISTRY

Original Articles

Effects of Exogenous Free Fatty Acids on Lipoprotein Migration in Serum High-Resolution Electrophoresis, The: Addition of Free Fatty Acids Improves Visualization of Normal and Abnormal Alpha₁-Antitrypsin Lyndon D. Su and David F. Keren, 262

Rapid Automated Determination of Lipid Hydroperoxide Concentrations and Total Antioxidant Status of Serum Samples From Patients Infected With HIV: Elevated Lipid Hydroperoxide Concentrations and Depleted Total Antioxidant Capacity of Serum Samples

Jerri L. McLemore, Peggy Beeley, Karla Thorton, Kevin Morrisroe, Walter Blackwell, and Amitava Dasgupta, 268

Rapid Novel Derivatization of Amphetamine and Methamphetamine Using 2,2,2-Trichloroethyl Chloroformate for Gas Chromatography Electron Ionization and Chemical Ionization Mass Spectrometric Analysis, A

Amitava Dasgupta and Jessica Spies, 527 Serum Percent-Free PSA Does Not Predict Extraprostatic Spread of Prostate Cancer

Walter H. Henricks, Barry G. England, Donald A. Giacherio, Joseph E. Oesterling, and Kirk J. Wojno, 533

COAGULATION AND TRANSFUSION MEDICINE

Original Articles

Coagulation Parameters of ABO Group–Specific Cryosupernatant

Glenn S. Gerhard, Suzanne M. Hoffman, and Eliot C. Williams, 379

Collagen-Induced Whole Blood Platelet Aggregation in Patients Undergoing Surgical Procedures Associated With Minimal to Moderate Blood Loss

Ayman Kabakibi, Eleftherios C. Vamvakas, Paul A. Cannistraro, Zbigniew M. Szczepiorkowski, and Michael Laposata, 392

Diagnostic Accuracy of Bedside and Laboratory Coagulation, The: Procedures Used to Monitor the Anticoagulation Status of Patients Treated With Heparin Harvey M. Solomon, Richard E. Mullins, Peggy Lyden, Pam Thompson, and Sue Hudoff, 371

Evaluation of a New Rapid D-Dimer Assay for Clinically Suspected Deep Venous Thrombosis (Liatest D-Dimer) Martine Escoffre-Barbe, Emmanuel Oger, Christophe Leroyer, Marc Grimaux, Emmanuelle Le Moigne, Michel Nonent, Luc Bressollette, Jean-François Abgrall, Claudine Soria, Jean Amiral, Patrick Ill, Jean Clavier, and Dominique Mottier, 748

Evaluation of Factor VIII Binding Activity of von Willebrand Factor by Means of an ELISA Method, The: Significance and Practical Implications

Alessandra Casonato, Elena Pontara, Patrizia Zerbinati, Alessandro Zucchetto, and Antonio Girolami, 347

Falsely Elevated INR Results Owing to the Sensitivity of a Thromboplastin Reagent to Heparin Brenda F. Leech and Cedric J. Carter, 764

Highly Sensitive Thromboplastins Do Not Improve INR Precision

Valerie L. Ng, Rafael Valdes-Camin, Eugene L. Gottfried, Stephen A. Echaves, Andrew G. Stead, and Ray F. Ebert, 338

INR Reporting in Canadian Medical Laboratories: An Update

Malcolm L. Brigden and Marilyn J. Johnston for the Thrombosis Interest Group of Canada, 589

Lack of Efficacy for Conventional Gamma Irradiation of Platelet Concentrates to Abrogate Bacterial Growth Butch M. Huston, Mark E. Brecher, and Nicholas Bandarenko, 743

Minimum Lyophilized Plasma Requirement for ISI Calibration

Leon Poller, Trevor W. Barrowcliffe, Anton M. H. P. van den Besselaar, Jørgen Jespersen, Armando Tripodi, and David Houghton for the European Concerted Action On Anticoagulation, 196

Minimum Specimen Volume Requirements for Routine Coagulation Testing: Dependence on Citrate Concentration

Dorothy M. Adcock, David C. Kressin, and Richard A. Marlar, 595

Prolonged Prothrombin Time and Activated Partial Thromboplastin Time Due to Underfilled Specimen Tubes With 109 mmol/L (3.2%) Citrate Anticoagulant Johanna Reneke, Joan Etzell, Susan Leslie, Valerie L. Ng, and Eugene L. Gottfried, 754

Serum Platelet Antibody Testing: Evaluation of Solid-Phase Enzyme Immunoassay and Comparison With Indirect Immunofluorescence

S. Breanndan Moore and Steven R. DeGoey, 190

Stability of Plasma for Add-On PT and APTT Tests
Demetra Neofotistos, Maria Oropeza, and Chung-Hsin
Ts'ao. 758

Whole Blood Screening Test for Factor V Leiden Using a Russell Viper Venom Time–Based Assay Muhammad S. Akhtar, Abbe J. Blair, Thomas C. King, and Joseph D. Sweeney, 387

Review Articles

Problems Associated With Passively Transfused Blood Group Alloantibodies George Garratty, 769

EDITORIALS

Automated Primary Screening for Gynecologic Cytology: The Time Has Not Yet Come Michael W. Stanley, 6

Detection of Chromosomal Translocations in Leukemia: Is There a Best Way? Jay L. Hess, 3

Enterococci: Susceptibility, Resistance, and Now Dependence on Vancomycin Linda M. Mundy, 367

Free Prostate-Specific Antigen: Does It Measure Up? William E. Schreiber, 511

Hepatic Iron Overload in the Age of Hereditary Hemochromatosis Mutation Analysis Mark D. Fleming, 505

Hepatitis C Virus and Non-Hodgkin's Lymphoma Raymond Lai and Lawrence M. Weiss, 508

Infection and America's Blood Supply: A 1998 Status Report Mark A. Popovsky, 659

Morphologic Identification of Mycelial Pathogens in Tissue Sections: A Caveat

John C. Watts and Francis W. Chandler, 1

Platelet Antibody Testing for Evaluating Immune Thrombocytopenias Richard A. McPherson, 123

Tracking Mycobacterium tuberculosis in the Laboratory Eric D. Spitzer, 248

Utility of Ki-67 as a Prognostic Marker in Pancreatic Endocrine Neoplasms Ricardo V. Lloyd, 245

HEMATOPATHOLOGY

Original Articles

Absolute Neutrophil Count, The: Is It the Best Indicator for Occult Bacteremia in Infants?

Michal M. Gombos, Robert S. Bienkowski, Robert F. Gochman, and Henny H. Billett, 221

Acute Myeloid Leukemia With Minimal Differentiation: A Multiple Parameter Study

Patti L. Cohen, James D. Hoyer, Paul J. Kurtin, Gordon W. Dewald, and Curtis A. Hanson, 32

CD8-Positive Mantle Cell Lymphoma: A Report of Two Cases

Douglas G. Hoffmann, Steven J. Tucker, Christos Emmanoulides, Peter A. Rosen, and Faramarz Naeim, 689 Combining Morphology and Flow Cytometric Immunophenotyping to Evaluate Bone Marrow Specimens for B-Cell Malignant Neoplasms Cherie H. Dunphy, 625

Comparative Analysis of FISH, RT-PCR, and Cytogenetics for the Diagnosis of *bcr-abl*–Positive Leukemias, A

M. Christina Cox, Laura Maffei, Sonia Buffolino, Giovanni Del Poeta, Adriano Venditti, Maria Cantonetti, Germano Aronica, Piera Aquilina, Mario Masi, and Sergio Amadori, 24

Comparative Analysis of Interphase FISH and RT-PCR to Detect *bcr-abl* Translocation in Chronic Myelogenous Leukemia and Related Disorders

Abdelghani Tbakhi, Jim Pettay, Joseph J. Sreenan, Hikmat Abdel-Razeq, Matt Kalaycio, Gerald Hoeltge, Michael L. Miller, and Raymond R. Tubbs, 16

Evaluation and Interference Study of Hemoglobin A_{1c} Measured by Turbidimetric Inhibition Immunoassay Judy Chang, Carolyn Hoke, Bruce Ettinger, and . Germaine Penerian, 274

Extranodal Lymphomas Associated With Hepatitis C Virus Infection

Valeria Ascoli, Francesco Lo Coco, Marco Artini, Massimo Levrero, Maurizio Martelli, and Francesco Negro, 600

Hodgkin's Disease in Costa Rica: A Report of 40 Cases Analyzed for Epstein-Barr Virus

Victoria Monterroso, Yuehua Zhou, Sophia Koo, Carlotta Glackin, Willem Bujan, and L. Jeffrey Medeiros, 618

Immunofluorescent Assay for Acute Promyelocytic Leukemia Cells, An

Michael K. Samoszuk, Wendy Tynan, Gretchen Sallash, Sherif Nasr, Yuri Monczak, and Wilson H. Miller, Jr, 205

Immunohistochemical Staining for DNA Topoisomerase II α in Hodgkin's Disease

Michael S. Brown, Joseph A. Holden, Mark P. Rahn, and Sherrie L. Perkins, 39

Immunophenotype of Adult Acute Myeloid Leukemia, The: High Frequency of Lymphoid Antigen Expression and Comparison of Immunophenotype, French-American-British Classification, and Karyotypic Abnormalities

Hasan S. Khalidi, L. Jeffrey Medeiros, Karen L. Chang, Russell K. Brynes, Marilyn L. Slovak, and Daniel A. Arber, 211

Improved Detection of CD5 Epitope in Formalin-Fixed Paraffin-Embedded Sections of Benign and Neoplastic Lymphoid Tissues by Using Biotinylated Tyramine Enhancement After Antigen Retrieval

Janet R. Butmarc, Helen P. Kourea, Edi Levi, and Marshall E. Kadin, 682

Incidence of DNA Aneuploidy in Multiple Myeloma Does Not Correlate With Stage of Disease, The

Ralf Nowak, Uta Oelschlägel, Ursula Range, Matthias Mölle, and Gerhard Ehninger, 226 Loss of Tumor Suppressor Gene Expression in High-Grade But Not Low-Grade Non-Hodgkin's Lymphomas Joseph Geradts, Joann W. Andriko, and Susan L. Abbondanzo, 669

T-Cell Subset Analysis of Peripheral T-Cell Lymphomas by Paraffin Section Immunohistology and Correlation of CD4/CD8 Results With Flow Cytometry

William R. Macon and Kevin E. Salhany, 610 Transient Increase in Blasts Mimicking Acute Leukemia and Progressing Myelodysplasia in Patients Receiving Growth

Factor Howard J. Meyerson, Diane C. Farhi, and Nancy S. Rosenthal, 675

Urticaria Pigmentosa: A Clinical, Hematopathologic, and Serologic Study of 30 Adults

Gerda Topar, Christine Staudacher, Francoise Geisen, Christoph Gabl, Falco Fend, Manfred Herold, Richard Greil, Peter Fritsch, and Norbert Sepp, 279

IMMUNOPATHOLOGY

Original Articles

Detection of Oligoclonal Bands in Cerebrospinal Fluid by Immunofixation Electrophoresis

Dominick Cavuoti, Leland Baskin, and Ishwarlal Jialal, 585

Hepatic Iron Overload: Direct *HLA-H* Mutation Analysis *vs*Quantitative Iron Assays for the Diagnosis of Hereditary Hemochromatosis

Richard D. Press, Ken Flora, Cindy Gross, John M. Rabkin, and Christopher L. Corless, 577

MICROBIOLOGY AND INFECTIOUS DISEASE

Original Articles

Acceptability of Low-Volume, Induced Sputum Specimens for Diagnosis of *Pneumocystis carinii* Pneumonia

Deanna L. Kiska, Nadine Y. Bartholoma, and Betty A. Forbes, 335

Ambiguity in the Identification of *Streptococcus pneumoniae*: Optochin, Bile Solubility, Quellung, and the AccuProbe DNA Probe Tests

Lesley S. Mundy, Edward N. Janoff, Kay E. Schwebke, Carol J. Shanholtzer, and Keith E. Willard, 55

Antimicrobial Susceptibility Testing of a Clinical Isolate of Vancomycin-Dependent Enterococcus Using D-Alanine-D-Alanine as a Growth Supplement

Li-Hwei Sng, Nancy Cornish, Cynthia C. Knapp, Margaret D. Ludwig, Geraldine S. Hall, and John A. Washington, 399

Comparison of Two Rapid Latex Agglutination Tests for Detection of Cryptococcal Capsular Polysaccharide David L. Jaye, Ken B. Waites, Brent Parker, Sandra L. Bragg, and Stephen A. Moser, 634

Comparison of Virus Culture and Direct Immunofluorescent Staining of Cytocentrifuged Virus Transport Medium for Detection of Varicella-Zoster Virus in Skin Lesions

Yvette S. McCarter and Irene N. Ratkiewicz, 631

Cross-Contamination of Specimens With Mycobacterium tuberculosis: Clinical Significance, Causes, and Prevention Mondira Bhattacharya, Stephen Dietrich, Laura Mosher, Farida Siddiqui, Boris E. Reisberg, William S. Paul, and John R. Warren, 324

Histologic Parameters Predictive of Mycobacterial Infection Yi-Wei Tang, Gary W. Procop, Xiaotian Zheng, Jeffrey L. Myers, and Glenn D. Roberts, 331

Morphologic Criteria for the Preliminary Identification of Fusarium, Paecilomyces, and Acremonium Species by Histopathology

Katharine Liu, David N. Howell, John R. Perfect, and Wiley A. Schell, 45

Nested Polymerase Chain Reaction for *Mycobacterium tuber-culosis* IS6110 Sequence on Formalin-Fixed Paraffin-Embedded Tissues With Granulomatous Diseases for Rapid Diagnosis of Tuberculosis

Luca Vago, Massimo Barberis, Andrea Gori, Paolo Scarpellini, Elena Sala, Manuela Nebuloni, Sara Bonetto, Maria Cannone, Giulia Marchetti, Fabio Franzetti, and Giulio Costanzi, 411

Optimal Screening and Diagnosis of Microsporida in Tissue Sections: A Comparison of Polarization, Special Stains, and Molecular Techniques

Laura W. Lamps, Mary P. Bronner, Cindy L. Vnencak-Jones, Kyi T. Tham, Howard R. Mertz, and Margie A. Scott. 404

Polymerase Chain Reaction Assay for the Detection and Identification of *Mycobacterium leprae* in Patients in the United States

David M. Scollard, Thomas P. Gillis, and Diana L. Williams, 642

Seroprevalence of HHV-8 Antibodies in HIV-Positive Homosexual Men Without Kaposi's Sarcoma and Their Clinical Follow-Up

Walter Verbeek, Matthew Frankel, Steven Miles, Jonathan Said, and H. Phillip Koeffler, 778

PATHOLOGY PATTERNS

Editorials

Handling the Pediatric Tumor
J. Thomas Stocker and Askold D. Mosijczuk, S1

Forefronts

Approach to Handling Pediatric Liver Tumors, An J. Thomas Stocker, S67 Approach to Handling Pediatric Thyroid and Adrenal Tumors Excluding Neuroblastoma, An Richard M. Conran, S73

Germ Cell Tumors Edith P. Hawkins, S82

Guidelines for the Diagnosis of Leukemia or Lymphoma in Children

Mary M. Zutter and Jay L. Hess, S9

Handling and Evaluation of Pediatric Renal Tumors Craig W. Zuppan, S31

Neuroblastoma and Peripheral Neuroectodermal Tumors Frederic B. Askin and Elizabeth I. Perlman, S23

Pathologic Evaluation of Pediatric Soft Tissue Tumors Cheryl M. Coffin and Louis P. Dehner, S38

Pathologic Handling of Skeletal Tumors, The Kathleen Patterson, S53

Specimen Collection and Preparation in Fine-Needle Aspirations in Children John J. Buchino and Hsiang-Kuang Lee, S4

REVIEW ARTICLES

Chromosomal Translocations in Benign Tumors: The HMGI Proteins

Jay L. Hess, 251

Familial Adenomatous Polyposis: From Bedside to Benchside

Maureen J. O'Sullivan, Tommie V. McCarthy, and Cuimin T. Doyle, 521

SPECIAL ARTICLES

ASCP Survey on Placental Examination Deborah J. Gersell, 127

On Trial—A Malignant Small Cell Tumor in a Child: Four Wrongs Do Not Make a Right Louis P. Dehner, 662

Proposed Guidelines for Primary Screening Instruments for Gynecologic Cytology

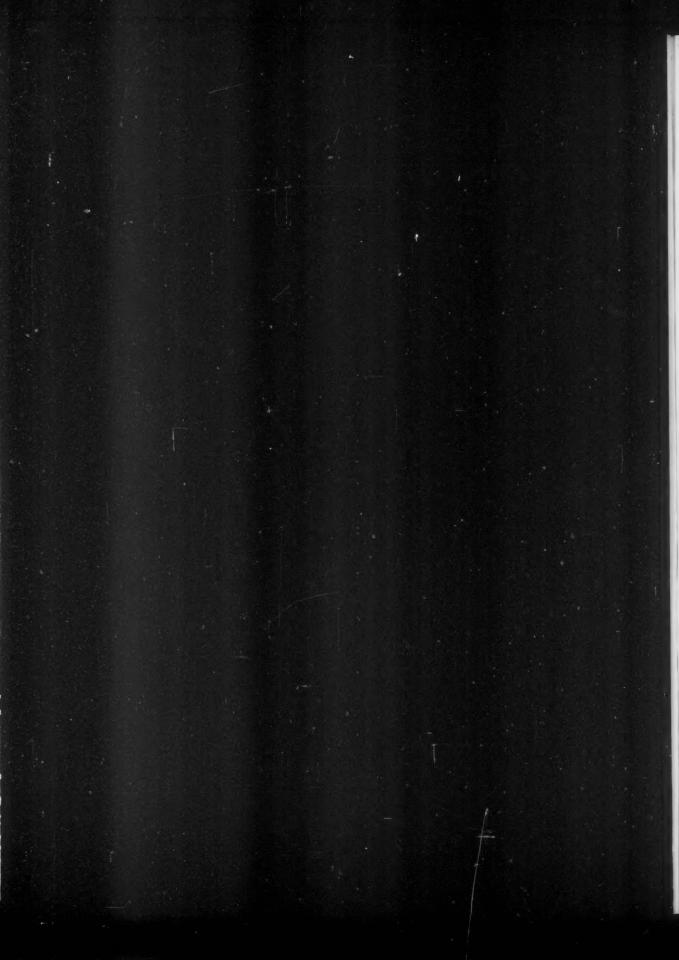
Intersociety Working Group for Cytology Technologies, 10

Teaching the Clinical Interpretation of Peripheral Blood Smears to a Second-Year Medical School Class Using the PeripheralBlood-Tutor Computer Program

Brent Wood, Lynn Mandel, Doug Schaad, Janet D. Curtis, Charlotte Murray, Virginia Broudy, Terry Gernsheimer, Mark H. Wener, Carol N. LeCrone, and Michael L. Astion, 514

United States Geographic Bacteria Susceptibility Patterns 1996 ASCP Susceptibility Testing Group, 144





Index of Issues: January, pp 1–122; February, 123–244; March, 245–366; April, 367–504; Supplement, S1–S88; May, 505–658; June, 659–812.

INDEX OF SUBJECTS

Page numbers beginning with S denote articles in the April supplement.

A

ABO groups

coagulation parameters of ABO group–specific cryosupernatant, 379

problems associated with passively transfused blood group alloantibodies, 769

Absolute neutrophil count, as indicator for occult bacteremia, 221

Abstracts of Papers, 468

AccuProbe DNA probe test, for Streptococcus pneumoniae identification, 55

Acinetobacter calcoaceticus—Acinetobacter baumannii complex, drug-resistant, 144

Acquired immunodeficiency syndrome. See Human immunodeficiency virus infection

Acremonium, morphologic criteria for identification of, 1, 45

Activated partial thromboplastin time

for factor V Leiden detection, 387

plasma stability for add-on test, 758

prolonged, due to underfilled specimen tubes with 109 mmol/L (3.2%) citrate anticoagulant, 754

specimen volume and citrate concentration for routine, 595

Adenocarcinoma

Ber-EP4 antibody in differentiating epithelial pleural mesothelioma from, 85

of duodenum, bile duct, and ampulla of Vater, endoscopic brush cytology in diagnosis of, 540

goblet-cell type, simulating pyloric mucosa of stomach, 423

in situ, endocervical. See Endocervical adenocarcinoma in situ

of prostate. See Prostate cancer

Adenoma

adrenocortical, in children, S77

of duodenum, bile duct, and ampulla of Vater, endoscopic brush cytology in diagnosis of, 540

Adenomatous polyposis coli gene mutations, in familial adenomatous polyposis, 521

Adrenal neoplasms, in children, S73

AIDS-related opportunistic infections, microsporidians in, 404

D-alanine-D-alanine, as growth supplement for vancomycin-dependent *Enterococcus*, 367, 399

Alloantibodies, problems associated with passively transfused blood group, 769

Alpha₁-antitrypsin, free fatty acid addition improving visualization of, in high-resolution electrophoresis, 262

Amphetamine, rapid novel derivatization of, using 2,2,2trichloroethyl chloroformate, for gas chromatography electron ionization and chemical ionization mass spectrometric analysis, 527

Ampulla of Vater, neoplasms of, endoscopic brush cytology in diagnosis of, 540

Angiogenesis

in ovarian carcinoma, 448

in stage II colorectal carcinoma, 733

Antibodies. See also Monoclonal antibodies

alloantibodies, problems associated with passively transfused blood group, 769

single-chain, in gene therapy for ovarian carcinoma, 444 Anticoagulation monitoring, international normalized ratio reporting in Canadian medical laboratories, 589

Antigens

lymphoid-associated, in immunophenotyping of acute myeloid leukemia, 211

proliferating cell nuclear. See Proliferating cell nuclear antigen

prostate-specific antigen, free, as predictor of extraprostatic spread of prostate cancer, 511, 533 tumor-associated, in genetic immunopotentiation, 444

Antimicrobial resistance. See Drug resistance

Antioxidant capacity, total, and lipid hydroperoxide concentrations, of serum samples of patients infected with HIV, rapid automated determination of, 268

Antisense gene therapy, for ovarian carcinoma, 449

Apomucin, cholangiocarcinomas arising in cirrhosis, and combined hepatocellular-cholangiocellular carcinomas, as sharing apomucin profiles, 302

Aprotinin, in whole blood screening test for factor V Leiden using Russell viper venom time–based assay, 387

Ascites, K-ras point mutations in supernatants of, 704

Asthma, pathologic considerations of, 101

Astrocytomas, image cytometric measurement of nuclear proliferation markers (MIB-1, PCNA) in, 69

Atrophy, atrophic prostatic adenocarcinoma mistaken for benign prostatic glandular, 695

Atypia

complete histologic sampling of prostate needle biopsy specimens from patients diagnosed with, 416 reactive, telomerase expression in, 153

Auramine-rhodamine staining, for mycobacteria detection, 331

Automation

lipid hydroperoxide concentrations and total antioxidant status of serum samples of patients infected with HIV, rapid automated determination of, 268 of primary screening for gynecologic cytology, 6, 10 Avoparcin, 368

B

Bacteremia

occult, absolute neutrophil count as indicator for, 221 vancomycin-dependent Enterococcus causing, 367, 399 Bacteria

and infection and America's blood supply, 660 lack of efficacy of conventional gamma irradiation of platelet concentrates to abrogate growth of, 743 susceptibility patterns, United States geographic, 144 Barrett's esophagus, 549

bcr-abl gene translocation, in chronic myelogenous leukemia, detection of, 3, 16, 24

Bedside coagulation procedures, diagnostic accuracy of, 371 Ber-EP4 monoclonal antibody, in differentiating epithelial pleural mesothelioma from adenocarcinoma, 85

Bile duct, neoplasms of, endoscopic brush cytology in diagnosis of, 540

Bile solubility, in *Streptococcus pneumoniae* identification, 55 Biopsy

cone, for endocervical adenocarcinoma in situ, status and distance of margins, as predictor of excision adequacy, 727

needle. See Needle biopsy

Biotinylated tyramine, for improved CD5 epitope detection, in paraffin-embedded sections of benign and neoplastic lymphoid tissues, 682

Blasts, mimicking acute leukemia and progressing myelodysplasia in patients receiving growth factor, transient increase in, 675

Blood loss, estimated, whole blood platelet aggregation correlated with, 392

Blood smears, peripheral, teaching interpretation of, using the PeripheralBlood-Tutor computer program, 514 Blood supply

infection and America's, a 1998 status report, 659 platelet concentrates, lack of efficacy of conventional gamma irradiation of, 743

Blood transfusion. See Transfusion

Body cavity fluids

conventional cytology, immunocytochemistry, and flow cytometric DNA ploidy in evaluation of, 712 K-ras point mutations in supernatants of, 704

Bone marrow

of children, evaluation of, S13

transient increase in blasts mimicking acute leukemia

and progressing myelodysplasia, in patients receiving growth factor, 675

urticaria pigmentosa, systemic, 279

Bone marrow neoplasms

B-cell malignant, morphology and flow cytometric immunophenotyping for evaluating specimens for, 625 myeloma, multiple, DNA aneuploidy as not correlating with stage of disease, 226

Bone neoplasms

in children, S53

malpractice suit in pediatric small cell tumor case, 662 Book Reviews, 112, 233, 353, 489, 647, 784

Breast carcinoma

homologous, of ductal sweat gland, salivary duct, and, 75

mucinous (colloid), fibroepithelial lesions as mimicking,

reduced E-cadherin immunohistochemical expression in node-negative, correlates with 10-year survival, 431 tumor cell (dys)cohesion as prognostic factor in aspirate smears for, 315

Brenner tumors, 178

Bronchiolitis, pathologic considerations of, 101

Bystander effect, in gene therapy for ovarian carcinoma, 451

C

C282Y homozygous mutation, in hereditary hemochromatosis, 505, 577

Cadherin, E-. See E-cadherin

Canadian medical laboratories, international normalized ratio reporting in, 589

Carcinoma. See also Adenocarcinoma

of breast. See Breast carcinoma

colorectal. See Colorectal carcinoma

of gallbladder, routes of hepatic metastasis of, 62

gastric. See Gastric neoplasms

hepatobiliary, lymphoepithelioma-like, associated with Epstein-Barr virus, 90

homologous, of breast, ductal sweat gland, and salivary duct, 75

of liver. See Liver neoplasms

of lung, mucinous bronchioloalveolar, with organoid differentiation, simulating pyloric mucosa of stomach, 423

ovarian. See Ovarian neoplasms

of skin. See Skin carcinoma

squamous cell. See Squamous cell carcinoma

thymic, CD5 for labeling, 722

of thyroid and adrenal glands, in children, S73

of thyroid gland, sclerosing mucoepidermoid, with eosinophilia, 294

of uterine cervix, telomerase expression in, 153

Catenins, and adenomatous polyposis coli protein, 523

CD4, expression in peripheral T-cell lymphoma, T-cell subset analysis by paraffin section immunohistology for, and correlation of CD4/CD8 results with flow cytometry, 610

CD5

improved detection of, in paraffin-embedded sections of benign and neoplastic lymphoid tissues, by using biotinylated tyramine enhancement after antigen retrieval, 682

for labeling thymic carcinomas and other nonlymphoid neoplasms, 722

CD8

CD8+ phenotype of mantle cell lymphoma, 689 expression in peripheral T-cell lymphoma, T-cell subset analysis by paraffin section immunohistology for, and correlation of CD4/CD8 results with flow cytometry,

CD44, expression in sinonasal inverted papillomas and associated squamous cell carcinomas, 309

CD99, in diagnosis of malignant small cell tumor in a child, 663

Cell cycle checkpoint abrogation, by loss of expression of tumor suppressor genes, 669

Cell-cycle proteins, in ovarian carcinoma, 448

Cerebrospinal fluid

Cryptococcus neoformans in, two rapid latex agglutination tests for detection of, 634

oligoclonal bands in, immunofixation electrophoresis for detection of, 585

Cervix, uterine

carcinoma of, telomerase expression in, 153 endocervical adenocarcinoma in situ. *See* Endocervical adenocarcinoma in situ

Chemotherapy

molecular, for ovarian carcinoma, 444 for ovarian nonlocalized epithelial tumors, transitional cell carcinoma pattern as guiding, 173

Children, tumors of. See Pediatric tumors

Choriocarcinomas, in children, S83

Chromatography, high-performance liquid, turbidimetric immunoinhibition assay of hemoglobin ${\rm A_{1c}}$ compared with, 274

Chromosome 1p, in primary Merkel cell carcinoma, 565 Cirrhosis

cholangiocarcinomas arising in, and combined hepatocellular-cholangiocellular carcinomas, as sharing apomucin profiles, 302

and gastric antral vascular ectasia, 558

and hereditary hemochromatosis, mutation analysis for distinguishing, 505, 577

Citrate

concentration for routine APTT, 595

prolonged PT and APTT, due to underfilled specimen tubes with 109 mmol/L (3.2%) citrate anticoagulant, 754

Coagulation. See also Activated partial thromboplastin time; Prothrombin time

bedside procedures for patients treated with heparin, diagnostic accuracy of, 371

parameters of ABO–specific cryosupernatant, 379 specimen volume and citrate concentration for routine testing, 595

Coagulation factors

factor V Leiden, Russell viper venom time–based whole blood screening test for detection of, 387 factor VIII

in cryosupernatant, compared with fresh frozen plasma, 379

von Willebrand factor in binding activity of, ELISA method for evaluation of, 347

Collagen-induced whole blood platelet aggregation test, for patients undergoing surgical procedures associated with minimal to moderate blood loss, 392

Colorectal carcinoma

adenomatous polyposis coli gene mutations in, 521 tumor angiogenesis in stage II, association with survival, 733

Computer-assisted diagnosis, PAPNET system in, for esophageal cancer, 549

Computer-assisted instruction, in peripheral blood smear interpretation, using the PeripheralBlood-Tutor computer program, 514

Cone biopsy, for endocervical adenocarcinoma in situ, status and distance of margins, as predictor of excision adequacy, 727

Correspondence, 114, 235, 356, 494, 650, 785

Cost analysis, of submitting lymph node sections, 571 Costa Rica, Hodgkin's disease in, analysis of Epstein-Barr virus in, 618

Cryosupernatant, coagulation parameters of ABO group–specific, 379

Cryptococcal Antigen Latex Agglutination System, 634
Cryptococcus neoformans, two rapid latex agglutination tests for detection of, 634

Cytocentrifuged viral transport medium, direct fluorescent antibody stain of, and virus culture, for detection of varicella-zoster virus in skin lesions, 631

Cytogenetics

for *bcr-abl* translocation detection, in leukemias, 3, 24 for chromosomal translocation detection, in benign mesenchymal tumors, 251

in immunophenotyping of acute myeloid leukemia, 211

conventional, and immunocytochemistry and flow cytometric DNA ploidy in evaluation of body cavity fluids. 712

endoscopic brush

in duodenal, biliary, and ampullary neoplasm diagnosis, 540

in esophageal and gastric cancer diagnosis, 549 gynecologic, primary screening instruments, proposed guidelines for, 6, 10

K-ras point mutation detection, in supernatants of peritoneal and pleural effusions, for diagnosis complementary to, 704

sclerosing mucoepidermoid carcinoma of thyroid gland with eosinophilia, cytomorphologic features of, 294 small cell (endometrioid) variant of endocervical adenocarcinoma in situ, in cervical smears, 738

Cytopathology, tumor cell (dys)cohesion as prognostic factor in aspirate smears for breast carcinoma, 315

E

Darier's sign, 279

Diabetes mellitus, hemoglobin A_{1c}, turbidimetric immunoinhibition assay of, 274

Diagnostic accuracy, of bedside coagulation procedures, 371

Diarrhea, microsporidians as cause of, 404

Direct fluorescent antibody stain

of cytocentrifuged viral transport medium, and virus culture, for detection of varicella-zoster virus in skin lesions, 631

for *Pneumocystis carinii* pneumonia diagnosis, acceptability of low-volume induced sputum specimens in, 335

DNA analysis, for K-ras point mutation detection, in supernatants of peritoneal and pleural effusions, 704

DNA aneuploidy, in multiple myeloma, as not correlating with stage of disease, 226

DNA ploidy analysis, flow cytometric, and conventional cytology and immunocytochemistry, in evaluation of body cavity fluids, 712

DNA topoisomerase $II\alpha$, in Hodgkin's disease, immunohistochemical staining for, 39

Drug resistance

United States geographic bacteria susceptibility patterns, 144

vancomycin-dependent Enterococcus, 367, 399

Duodenum, neoplasms of, endoscopic brush cytology in diagnosis of, 540

Dust-related small airway fibrosis, 101

Dysplasia, cervical, telomerase expression in, 153

E

E1A gene, in gene therapy for ovarian carcinoma, 449 E-cadherin

catenins associated with, 523

reduced immunohistochemical expression in nodenegative breast carcinomas, correlates with 10-year survival, 431

Electrophoresis

high-resolution, exogenous free fatty acids' effects on lipoprotein migration in, 262

immunofixation, for oligoclonal bands in cerebrospinal fluid, 585

Emerging infections, 144

Endocervical adenocarcinoma in situ

of small, endometrioid cell type, 738

status and distance of cone biopsy margins for, as predictor of excision adequacy, 727

Endometrium

electrothermal ablation of, 96

small cell (endometrioid) variant of adenocarcinoma in situ in cervical smears, 738

Endoscopic brush cytology

in duodenal, biliary, and ampullary neoplasm diagnosis, 540

in esophageal and gastric cancer diagnosis, 549

Enterobacter cloacae, drug-resistant, 144

Enterococcus

drug-resistant, 144

vancomycin-dependent, antimicrobial susceptibility testing of clinical isolate of, using D-alanine-D-alanine as growth supplement, 367, 399

Enzyme-linked immunosorbent assay

D-dimer, for suspected deep venous thrombosis, 748 factor VIII binding activity of von Willebrand factor by means of, 347

Eosinophilia, sclerosing mucoepidermoid carcinoma of thyroid gland with, 294

Epidermal growth factor receptor, in ovarian carcinoma, 447 Epstein-Barr virus

hepatobiliary lymphoepithelioma-like carcinoma associated with, 90

in Hodgkin's disease, in Costa Rica, 618

Erb-2 oncoprotein, in ovarian carcinoma, 444

Escherichia coli, drug-resistant, 144

Esophageal balloon sampling, in screening for esophageal carcinoma, 549

Esophagus, carcinoma of, PAPNET system in screening for, 549

Ewing's sarcoma

in children, S53

malpractice suit for misdiagnosis of, 662

F

βF1, expression in peripheral T-cell lymphoma, T-cell subset analysis by paraffin section immunohistology for, and correlation of CD4/CD8 results with flow cytometry, 610

Factor V Leiden, Russell viper venom time–based whole blood screening test for detection of, 387

Factor VIII

in cryosupernatant, compared with fresh frozen plasma, 379

von Willebrand factor in binding activity of, ELISA method for evaluation of, 347

Familial adenomatous polyposis, 521

Fas ligand, in ovarian carcinoma, 455

Fatty acids, exogenous free, lipoprotein migration in highresolution electrophoresis as affected by, 262

Fetal membranes, 130

Fibrinogen, in cryosupernatant compared with fresh frozen plasma, 379

Fibroepithelial lesions, as mimicking mucinous (colloid) mammary carcinoma, 169

Fibromatosis, in children, S38

Fine-needle aspiration biopsy

of breast

fibroepithelial lesions as source of mucin in, 169 tumor cell (dys)cohesion as prognostic factor in, 315 of gastrointestinal stromal tumors, 439

of pediatric tumors, S4

Flow cytometry

for DNA aneuploidy detection, in multiple myeloma, 226 in DNA ploidy analysis, and conventional cytology and immunocytochemistry, in evaluation of body cavity fluids, 712

in immunophenotyping

of acute myeloid leukemia, 211

of CD8-positive mantle cell lymphoma, 689

and morphology for evaluating bone marrow specimens for B-cell malignant neoplasms, 625 of pediatric leukemia or lymphoma, S18

lymphoma, peripheral T-cell, T-cell subset analysis of, by paraffin section immunohistology, and correlation of CD4/CD8 results with, 610

French-American-British Cooperative Group classification, immunophenotyping of acute myeloid leukemia compared with, 211

Fusarium, morphologic criteria for identification of, 1, 45

G

Gallbladder, carcinoma of, routes of hepatic metastasis of, 62

Ganciclovir, in gene therapy for ovarian carcinoma, 451 Ganglioneuroblastoma, and neuroblastoma, in children, S27 Ganglioneuroma, and neuroblastoma, in children, S27 Gardner's syndrome, 521

Gas chromatography–mass spectrometry, rapid novel derivatization of amphetamine and methamphetamine, using 2,2,2-trichloroethyl chloroformate, for, 527

Gastric antral vascular ectasia syndrome, histopathologic changes as not specific for diagnosis of, 558

Gastric neoplasms

carcinoma

brain-type glycogen phosphorylase expression in intestinal metaplasia proliferative zone and its relationship with carcinogenesis, 181 PAPNET system in screening for, 549

gastrointestinal stromal tumors, fine-needle aspiration of, 439

Gene rearrangement analysis

hepatitis C virus–related lymphomas documented by, 600

for pediatric leukemia or lymphoma diagnosis, \$20 Gene therapy, ovarian carcinoma as paradigm for, 444 Genetic immunopotentiation, 444

Genetic vectors, in gene therapy for ovarian carcinoma, 444 Gene transfer therapies, for ovarian carcinoma, 444

Germ cell tumors, in children, S82

Germinoma, in children, S83

Glycated hemoglobin, turbidimetric immunoinhibition 'assay of hemoglobin $A_{1c'}$ 274

Glycogen phosphorylase, brain-type, expression in intestinal metaplasia proliferative zone and its relationship with carcinogenesis, 181

Gonadal tumors, in children, S83

Granulocyte colony-stimulating factor, transient increase in blasts mimicking acute leukemia and progressing myelodysplasia, in patients receiving, 675

Granulocyte-macrophage colony-stimulating factor, transient increase in blasts mimicking acute leukemia and progressing myelodysplasia, in patients receiving, 675

Granulomas, mycobacterial infection positivity in, 331 Growth factor therapy, transient increase in blasts mimicking acute leukemia and progressing

mimicking acute leukemia and progressing myelodysplasia, in patients receiving, 675

Gynecologic cytology, primary screening instruments for, proposed guidelines for, 6, 10

H

H63D mutation, in hereditary hemochromatosis, 506 Hemochromatosis, hereditary, HFE (HLA-H) mutation analysis vs quantitative iron assays for diagnosis of, 505, 577

 $He moglobin \ A_{1c'} \ turbidimetric \ immunoinhibition \ assay \ of,$ evaluation and interference study of, 274

Hemosiderosis, and hereditary hemochromatosis, mutation analysis for distinguishing, 505, 577

Heparin

bedside coagulation procedures for patients treated with, diagnostic accuracy of, 371

falsely elevated INR results owing to sensitivity of a thromboplastin reagent to, 764

Hepatitis B virus, and infection and America's blood supply, 659

Hepatitis C virus

and infection and America's blood supply, 659 non-Hodgkin's lymphomas associated with, 508, 600

Hepatitis G virus, and infection and America's blood supply, 659

Hepatobiliary tract, lymphoepithelioma-like carcinoma of, associated with Epstein-Barr virus, 90

Hepatoblastoma, S67

HER-2/neu gene amplification, as predicting postradiation recurrence in prostatic adenocarcinomas, 163

Heterozygosity, loss of, in primary Merkel cell carcinoma, 565

HFE (HLA-H) mutation analysis, for hereditary hemochromatosis diagnosis, quantitative iron assays compared with, 505, 577

High-mobility proteins, chromosomal translocations in, in benign mesenchymal tumors, 251

Histopathology

of gastric antral vascular ectasia syndrome, 558 morphologic criteria for preliminary diagnosis of mycelial pathogens, 1, 45

HLA-H (HFE) mutation analysis, for hereditary hemochromatosis diagnosis, quantitative iron assays compared with, 505, 577

HMGI-C gene, chromosomal translocations in, in benign mesenchymal tumors, 251

HMGI(Y) gene, chromosomal translocations in, in benign mesenchymal tumors, 251

Hodgkin's disease

in Costa Rica, analysis of Epstein-Barr virus in, 618 DNA topoisomerase IIα in, immunohistochemical staining for, 39

HSV-tk gene, in gene therapy for ovarian carcinoma, 451 Human herpes virus 8, seroprevalence of, in HIV-positive homosexual men without Kaposi's sarcoma, and their clinical follow-up, 778

Human immunodeficiency virus infection

cryptococcal disease with, latex agglutination tests for detection of, 634

and infection and America's blood supply, 659

lipid hydroperoxide concentrations and total antioxidant status of serum samples of patients infected with, rapid automated determination of, 268

microsporidian infection in patients with, 404 polymerase chain reaction for Mycobacterium tuberculosis

IS6110 sequence, on formalin-fixed paraffin-embedded tissue samples from patients with, 411

seroprevalence of HHV-8 in HIV-positive homosexual men without Kaposi's sarcoma, and their clinical follow-up, 778

Human T-cell lymphotropic virus, and infection and America's blood supply, 659

Hyalohyphomycosis, morphologic criteria for identification of mycelial pathogens in, 1, 45

Hyperplastic polyps, in gastric antral vascular ectasia syndrome, 558

1

Image analysis, of gastric antral vascular ectasia syndrome, 558

Image cytometry, for measurement of nuclear proliferation markers (MIB-1, PCNA) in astrocytomas, 69

Immunoassay. See also Immunofluorescent assay; Enzymelinked immunosorbent assay

solid-phase enzyme, for platelet antibody testing, indirect immunofluorescence compared with, 123, 190 turbidimetric inhibition, of hemoglobin $A_{1c'}$ 274

Immunocompromised patients, microsporidian infections in, 404

Immunocytochemistry, and conventional cytology and flow cytometric DNA ploidy, in evaluation of body cavity fluids, 712

Immunofluorescent assay. See also Direct fluorescent antibody stain

for acute promyelocytic leukemia cells, 205 indirect, for platelet antibody testing, solid-phase enzyme immunoassay compared with, 123, 190

Immunoglobulin heavy-chain gene rearrangement, in hepatitis C virus-related lymphomas, 600

Immunohistochemistry

Ber-EP4 antibody in differentiating epithelial pleural mesothelioma from adenocarcinoma, 85

CD5 for labeling thymic carcinoma and other nonlymphoid neoplasms, 722

cell proliferation rate by MIB-1 predicts postradiation recurrence in prostate adenocarcinoma, 163

cholangiocarcinomas arising in cirrhosis, and combined hepatocellular-cholangiocellular carcinomas, as sharing apomucin profiles, 302

DNA topoisomerase II α in Hodgkin's disease, dual staining for, 39

E-cadherin immunohistochemical expression, reduced, in node-negative breast carcinomas correlates with 10-year survival, 431

for Epstein-Barr virus, in Hodgkin's disease, in Costa Rica, 618

hepatobiliary lymphoepithelioma-like carcinoma

associated with Epstein-Barr virus, 90

homologous carcinomas of breasts, skin, salivary glands, comparison of, 75

in small cell tumor diagnosis, 665

of soft tissue tumors, in children, S44

tumor suppressor genes, loss of expression of, in highgrade but not low-grade non-Hodgkin's lymphoma, 669

Immunophenotyping

of acute myeloid leukemia

lymphoid antigen expression in, 211 with minimal differentiation, 32

of CD8-positive mantle cell lymphoma, 689

and morphology for evaluating bone marrow specimens for B-cell malignant neoplasms, 625

of pediatric leukemia or lymphoma, S18

Immunostaining

Ber-EP4 antibody in differentiating epithelial pleural mesothelioma from adenocarcinoma, 85

for CD5 epitope detection, in paraffin-embedded sections of benign and neoplastic lymphoid tissues, by using biotinylated tyramine enhancement, after antigen retrieval, 682

for DNA topoisomerase $II\alpha$ in Hodgkin's disease, 39 for germ cell tumors in children, \$84\$

for lymph node metastases detection, 574

for nuclear proliferation markers (MIB-1, PCNA), in astrocytomas, 69

Inaugural Address, 110

Infectious diseases

gamma irradiation of platelet concentrates, lack of efficacy to abrogate bacterial growth, 743

infection and America's blood supply, a 1998 status report, 659

mycobacterial infection, 331

United States geographic bacteria susceptibility patterns, 144

In Memoriam

Gaffey, Michael James, 355 Russell, William O., 492

In situ hybridization

fluorescence, for detection of *bcr-abl* translocation, in chronic myelogenous leukemia, 3, 16, 24

hepatobiliary lymphoepithelioma-like carcinoma associated with Epstein-Barr virus, 90

Integrative vector, in gene therapy for ovarian carcinoma, 444

International normalized ratio

falsely elevated results, owing to sensitivity of a thromboplastin reagent to heparin, 764

highly sensitive thromboplastins as not improving precision of, 338

minimum lyophilized plasma requirement for ISI calibration, 196

reporting in Canadian medical laboratories, 589

International Sensitivity Index

falsely elevated INR results, owing to sensitivity of a thromboplastin reagent to heparin, 764

highly sensitive thromboplastin, as not improving INR precision, 338

minimum lyophilized plasma requirement for calibration, 196

prolonged PT and APTT, due to underfilled specimen tubes with 109 mmol/L (3.2%) citrate anticoagulant, 754

of thromboplastins in Canadian medical laboratories, 589 Intestinal disease, parasitic, microsporidians as cause of, 404 Intestinal metaplasia, in human stomach, brain-type glycogen phosphorylase expression in proliferative zone, and its relationship with carcinogenesis, 181

Intracellular adhesion molecules, tumor cell (dys)cohesion as prognostic factor in aspirate smears for breast carcinoma, 315

Intraoperative bleeding, collagen-induced whole blood platelet aggregation test for, 392

Invasiveness, surgical, and estimated blood loss, 392 Iron overload, hepatic, *HFE (HLA-H)* mutation analysis for hereditary hemochromatosis diagnosis, 505, 577

Irradiation, gamma, of platelet concentrates, lack of efficacy of conventional to abrogate bacterial growth, 743

K

Kaposi's sarcoma, seroprevalence of HHV-8 in HIV-positive homosexual men without, and their clinical follow-up, 778 Ki-67 antigen

in astrocytomas, image cytometric measurement of, 69 in neuroendocrine tumors of the pancreas, 245, 286 as predicting postradiation recurrence in prostatic adenocarcinomas, 163

Kidney neoplasms, in children, S31

Klebsiella pneumoniae, drug-resistant, 144

K-ras point mutations, in supernatants of peritoneal and pleural effusions for diagnosis complementary to cytologic examination, detection of, 704

L

Latent membrane protein, Epstein-Barr virus, in Hodgkin's disease, in Costa Rica, 618

Latex agglutination tests, for cryptococcal capsular polysaccharide detection, comparison of two rapid, 634

Leiomyoma, fine-needle aspiration of, 439

Leiomyosarcoma, fine-needle aspiration of, 439

Leprosy, polymerase chain reaction for Mycobacterium leprae detection, 642

Leu-1 antibody, for CD5 epitope detection, in paraffinembedded sections of benign and neoplastic lymphoid tissues, by using biotinylated tyramine enhancement, after antigen retrieval, 682

Leukemia

acute, transient increase in blasts mimicking, in patients receiving growth factor, 675

acute lymphoblastic, bcr-abl translocation in, detection of, 24 acute myeloid

immunophenotyping of, lymphoid antigen expression in, 211

with minimal differentiation, 32

acute promyelocytic, PG-M3 in immunofluorescent assay for, 205

B-cell, mature, morphology and flow cytometric immunophenotyping for evaluating bone marrow specimens for, 625

in children, guidelines for diagnosis of, S9

chronic lymphocytic, flow cytometry for distinguishing from mantle cell lymphoma, 689

chronic myelogenous, *bcr-abl* translocation in, detection of, 3, 16

Liatest D-dimer, for suspected deep venous thrombosis, evaluation of, 748

Lipid hydroperoxide, concentrations of, and total antioxidant status, of serum samples of patients infected with HIV, rapid automated determination of, 268

Lipoprotein, exogenous free fatty acids as affecting migration of, in high-resolution electrophoresis, 262

Liver disease. See also Cirrhosis

hepatitis C virus infection associated with extranodal lymphomas, 508, 600

Liver neoplasms

carcinoma

hepatic metastasis of gallbladder, 62

hepatobiliary lymphoepithelioma-like, associated with Epstein-Barr virus, 90

in children, S67

cholangiocarcinomas, arising in cirrhosis, and combined hepatocellular-cholangiocellular carcinomas, as sharing apomucin profiles, 302

LMP-1 gene, 90

Lung disease, pathologic considerations of bronchiolitis, 101

Lung neoplasms

carcinoma, mucinous bronchioloalveolar, with organoid differentiation, simulating pyloric mucosa of stomach, 423

mesothelioma and adenocarcinoma, epithelial pleural, Ber-EP4 antibody in differentiation of, 85

Lymph node sections, comparison of methods for submitting, 571

Lymphoepithelioma, hepatobiliary lymphoepithelioma-like carcinoma associated with Epstein-Barr virus, 90 Lymphoma

CD5 epitope, improved detection of, in paraffinembedded sections of benign and neoplastic lymphoid tissues, by using biotinylated tyramine enhancement after antigen retrieval, 682

in children, guidelines for diagnosis of, \$9

Hodgkin's disease. See Hodgkin's disease

mantle cell, CD8-positive, 689 non-Hodgkin's. See Non-Hodgkin's lymphoma

peripheral T-cell, T-cell subset analysis of, by paraffin section immunohistology, and correlation of CD4/CD8 results with flow cytometry, 610

M

Major histocompatibility complex class I molecules, in gene therapy for ovarian carcinoma, 454

Malpractice, pediatric small cell tumor case, 662

Margins, endocervical, status and distance of cone biopsy, for endocervical adenocarcinoma in situ, as predictor of excision adequacy, 727

Mastocytosis, urticaria pigmentosa, clinical, hematopathologic, and serologic study of, 279

Medical education, peripheral blood smear interpretation, using the PeripheralBlood-Tutor computer program, 514

Medullary carcinoma, of the thyroid, S73

Meningitis, cryptococcal, latex agglutination tests for detection of, 634

Menometrorrhagia, thermal endometrial ablation for, 96 Mesothelioma, epithelial pleural, Ber-EP4 antibody in differentiating adenocarcinoma from, 85

Metaplasia, intestinal, in human stomach, brain-type glycogen phosphorylase expression in proliferative zone and its relationship with carcinogenesis, 181

Methamphetamine, rapid novel derivatization of, using 2,2,2-trichloroethyl chloroformate, for gas chromatography electron ionization and chemical ionization mass spectrometric analysis, 527

MIB-1 monoclonal antibody

in astrocytomas, image cytometric measurement of, 69 cell proliferation rate by MIB-1 immunohistochemistry predicts postradiation recurrence in prostate adenocarcinoma, 163

proliferation index, and outcome in neuroendocrine tumors of pancreas, 245, 286

Microscopy

electron, in small cell tumor diagnosis, 665 light

for screening and diagnosis of Microsporida, 404 in small cell tumor diagnosis, 665

Microsporida, optimal screening and diagnosis of, in tissue sections, polarization, special stains, and molecular techniques compared, 404

Microvessel counts, and tumor angiogenesis in stage II colorectal carcinoma, association with survival, 733

Molecular techniques

for Microsporida screening and diagnosis, 404 for pediatric leukemia or lymphoma diagnosis, S20 in small cell tumor diagnosis, 665

Monoclonal antibodies. See also MIB-1 monoclonal antibody

Ber-EP4, in differentiating epithelial pleural mesothelioma from adenocarcinoma, 85

PG-M3 in immunofluorescent assay for acute promyelocytic leukemia, 205

MT51/CDKN2 gene, loss of expression of, in high-grade but not low-grade non-Hodgkin's lymphoma, 669

MUC3 apomucin, 302

MUC5AC apomucin, 302

MUC6 apomucin, 302

MUC7 apomucin, 302

Mucin

carcinoma

mucinous bronchioloalveolar, with organic differentiation simulating pyloric mucosa of stomach, 423 sclerosing mucoepidermoid, of thyroid gland with eosinophilia, 294

fibroepithelial lesions as source of, in breast fine-needle aspiration, 169

Mucosa, carcinoma, mucinous bronchioloalveolar, with organic differentiation, simulating pyloric, 423

Multiple sclerosis, oligoclonal bands in cerebrospinal fluid in diagnosis of, 585

Murex Cryptococcus Test, 634

Mutation analysis, HFE (HLA-H), for hereditary hemochromatosis diagnosis, quantitative iron assays compared with, 505, 577

Mutation compensation, 444

Mycelial pathogens, morphologic identification of, in tissue sections, 1, 45

Mycobacterial infection, histologic parameters predictive of, 331

Mycobacterium leprae, polymerase chain reaction for detection of, 642

Mycobacterium tuberculosis

cross-contamination of specimens with, 248, 324 polymerase chain reaction, of IS6110 sequence, on formalin-fixed paraffin-embedded tissues, 411

Myelodysplastic syndrome, transient increase in blasts mimicking, in patients receiving growth factor, 675

Myeloma, multiple, DNA aneuploidy as not correlating with stage of disease, 226

N

Needle biopsy. See also Fine-needle aspiration biopsy prostate, diagnostic effect of complete histologic sampling of specimens, 416

Neisseria meningitidis, drug-resistant, 144

Neoplasms. See also sites and types by name

benign mesenchymal, HMGI chromosomal translocations in, 251

morphologic mimicry in malignant, 75

Nephroma, in children, S31

Neural net-based interactive scanning system, for esophageal and gastric cancer, evaluation of, 549

Neuroblastoma, in children, S23

Neuroectodermal tumors, peripheral, in children, S23

Neuroendocrine tumors, of pancreas, MIB-1 proliferation index and outcome in, 245, 286

News and Notices, 118, 239, 361, 499, 653, 788

Non-Hodgkin's lymphoma

B-cel

hepatitis C virus associated with, 508, 600 morphology and flow cytometric immunophenotyping for evaluating bone marrow specimens for, 625

loss of expression of tumor suppressor genes in highgrade but not low-grade, 669

O

Oligoclonal bands, in cerebrospinal fluid, immunofixation electrophoresis for detection of, 585

Oncogenes, dominant, in ovarian carcinoma, 447

Optochin susceptibility, in Streptococcus pneumoniae identification, 55

Organoid differentiation, carcinoma, mucinous bronchioloalveolar, with, simulating pyloric mucosa of stomach, 423

Osteosarcoma, in children, S53

Ovarian neoplasms

Brenner tumors, 178

carcinoma

as gene therapy paradigm, 444

transitional cell pattern, in nonlocalized epithelial (stages 2–4), 173

germ cell tumors, in children, S82

primary screening instruments for gynecologic cytology, 6 10

OVCA genes, in ovarian carcinoma, 446

P

p16, loss of expression of, in high-grade but not low-grade non-Hodgkin's lymphoma, 669

p53 gene, in ovarian carcinoma, 446

Paecilomyces, morphologic criteria for identification of, 1, 45

Pancreas, neuroendocrine tumors of, MIB-1 proliferation index and outcome in, 245, 286

Papanicolaou smears, small cell (endometrioid) variant of endocervical adenocarcinoma in situ in, 738

Papillary carcinoma, of the thyroid, in children, S73

Papillomas, sinonasal inverted, CD44 expression in, 309

PAPNET system, for esophageal and gastric cancer, evaluation of, 549

Paraffin immunoperoxidase, T-cell subset analysis of peripheral T-cell lymphoma by, and correlation of CD4/CD8 results with flow cytometry, 610

Pathology, surgical, pediatric small cell tumor malpractice case, 662

Pediatric tumors, S1

of germ cells, S82

leukemia or lymphoma, S9

of the liver, S67

malpractice suit in small cell tumor case, 662

neuroblastoma and peripheral neuroectodermal, S23 renal, S31

skeletal, S53

soft tissue, S38

specimen collection and fine-needle aspirations for, S4 thyroid and adrenal, S73

Peribronchiolar fibrosis, 101

Peripheral blood smears, teaching clinical interpretation of, using the Peripheral Blood-Tutor computer program, 514

Peritoneal implants, as indicator for ovarian epithelial tumor, 173

Peritonitis, vernix caseosa, maternal, with antenatal onset, 320

PG-M3 monoclonal antibodies, in immunofluorescent assay for acute promyelocytic leukemia, 205

Pheochromocytoma, in children, S77

Philadelphia (Ph) chromosome, 3, 16, 24

Placental disk, 132

Placental examination, ASCP survey on, 127

Plasma

fresh frozen, cryosupernatant in treatment of thrombotic thrombocytopenic purpura refractory to, 379

lyophilized, minimum requirement for ISI calibration, 196

stability of, for add-on PT and APTT tests, 758

Platelet aggregation, collagen-induced whole blood, for patients undergoing surgical procedures associated with minimal to moderate blood loss, 392

Platelet antibody testing

for immune thrombocytopenia evaluation, 123 solid-phase enzyme immunoassay compared with indirect immunofluorescence for, 123, 190

Platelet concentrates, lack of efficacy for conventional gamma irradiation of, to abrogate bacterial growth, 743

Pleura, epithelial mesothelioma of, Ber-EP4 antibody in differentiating adenocarcinoma from, 85

PML-RARα rearrangement, in immunofluorescent assay for acute promyelocytic leukemia cells, 205

Pneumocystis carinii pneumonia, induced sputum specimens for diagnosis of, acceptability of low-volume, 335

Pneumonia, *Pneumocystis carinii*, induced sputum specimens for diagnosis of, acceptability of low-volume, 335

Polarization, for Microsporida screening and diagnosis, 404 Polymerase chain reaction

for Epstein-Barr virus

in Hodgkin's disease, in Costa Rica, 618 typing, 90

for factor V Leiden defect detection, Russell viper venom time–based whole blood screening test compared with, 387

for K-ras point mutation detection, in supernatants of peritoneal and pleural effusions, for diagnosis complementary to cytologic examination, 704

for microsporidian detection, 404

for Mycobacterium leprae detection, 642

nested, of Mycobacterium tuberculosis IS6110 sequence, on formalin-fixed paraffin-embedded tissues, 411

reverse transcriptase

for *bcr-abl* translocation detection, in chronic myelogenous leukemia, 3, 16, 24

strand-specific, hepatitis C virus-related lymphomas documented by, 600

for t(15;17) translocation detection, in acute promyelocytic leukemia, 205

Polynucleotide immunization, in gene therapy for ovarian carcinoma, 444

Portal hypertensive gastropathy, gastric antral vascular ectasia syndrome as, 558

Portal tracts, in hepatic metastasis of gallbladder carcinoma, 62

Postheparin effect, exogenous free fatty acids as affecting lipoprotein migration, in high-resolution electrophoresis, 262

pRB, loss of expression of, in high-grade but not low-grade non-Hodgkin's lymphoma, 669

Primary screening, for gynecologic cytology, proposed guidelines for instruments for, 6, 10

Proliferating cell nuclear antigen

in astrocytomas, image cytometric measurement of, 69 carcinoma, gastric, labeling index of, 181

Proliferation, cell proliferation rate by MIB-1 predicts postradiation recurrence in prostate adenocarcinoma, 163

Prostate cancer

adenocarcinoma

with atrophic features, a study of 202 consecutive

completely embedded radical prostatectomy specimens, 695

cell proliferation rate by MIB-1 immunohistochemistry predicts postradiation recurrence in, 163 free prostate-specific antigen, as predictor of extraprostatic spread of, 511, 533

needle biopsy for, diagnostic effect of complete histologic sampling of specimens, 416

Prostate-specific antigen, free, as predictor of extraprostatic spread of prostate cancer, 511, 533

Prostatic epithelial neoplasia, complete histologic sampling of prostate needle biopsy specimens from patients diagnosed with, 416

Prothrombin time. See also international normalized ratio plasma stability for add-on test, 758

prolonged, due to underfilled specimen tubes with 109 mmol/L (3.2%) citrate anticoagulant, 754

specimen volume and citrate concentration for routine, 595

Pyloric gland, carcinoma, mucinous bronchioloalveolar, with organic differentiation, simulating mucosa of, 423

Q

Quellung reaction, in Streptococcus pneumoniae identification, 55

R

Radiation therapy, cell proliferation rate by MIB-1 immunohistochemistry predicts postradiation recurrence in prostate adenocarcinoma, 163

Ras mutations, in ovarian carcinoma, 448

RB tumor suppressor gene, in ovarian carcinoma, 446

Receiver operator characteristic curve analysis, bedside coagulation procedures for patients treated with heparin, diagnostic accuracy evaluation by means of, 371

Regional bacteria susceptibility, 144

Replicative viral vectors, in gene therapy for ovarian carcinoma, 444

Retinoblastoma tumor suppressor gene, loss of expression of, in high-grade but not low-grade non-Hodgkin's lymphoma, 669

Retinoic acid, in acute promyelocytic leukemia treatment, 205

Rhabdomyosarcoma, in children, S38

Russell viper venom time, in whole blood screening test for factor V Leiden, 387

S

Sacrococcygeal tumors, in children, S82 Salivary gland, carcinoma, homologous, of ductal sweat gland, breast, and, 75 Sampling, histologic, complete, of prostate needle biopsy specimens, diagnostic effects of, 416

Sarcoidosis, polymerase chain reaction for *Mycobacterium* tuberculosis IS6110 sequence, on formalin-fixed paraffinembedded tissue samples from patients with, 411 Sarcoma

clear cell, of kidney, in children, S31

Ewing's. See Ewing's sarcoma

Kaposi's, seroprevalence of HHV-8 in HIV-positive homosexual men without, and their clinical follow-up, 778

osteosarcoma, in children, S53 soft tissue, in children, S38

Serratia marcescens

drug-resistant, 144

gamma irradiation of platelet concentrates, lack of efficacy to abrogate bacterial growth, 743

Sinonasal tract, inverted papillomas of, CD44 expression in, 309

Skeletal tumors, in children, S53

Skin carcinoma

homologous, of ductal sweat gland, salivary duct, and breast, 75

Merkel cell, genetic changes associated with primary, 565

leprosy, polymerase chain reaction for *Mycobacterium leprae* detection, 642

urticaria pigmentosa, clinical, hematopathologic, and serologic study of, 279

varicella-zoster virus in, virus culture and direct immunofluorescent staining of cytocentrifuged viral transport medium for detection of, 631

Small airway diseases, 101

Sodium citrate. See Citrate

Soft tissue tumors, in children, S38

Southern blot analysis

for *bcr-abl* translocation detection, in chronic myelogenous leukemia, 3, 16

hepatitis C virus-related lymphomas documented by, 602

for microsporidian detection, 404

for pediatric leukemia or lymphoma diagnosis, S20

Specimen collection, from children, S4

Specimen cross-contamination, with Mycobacterium tuberculosis, 248, 324

Sputum specimens, induced, for *Pneumocystis carinii* pneumonia diagnosis, acceptability of low-volume, 335

Squamous cell carcinoma

of sinonasal tract, CD44 expression in inverted papillomas of, and associated, 309 of uterine cervix, telomerase expression in, 153

Squamous intraepithelial lesions, of uterine cervix, telomerase expression in, 153

Stains. See also Immunostaining

auramine-rhodamine staining, for mycobacteria detection, 331

special, for Microsporida screening and diagnosis, 404 trichrome stain, modified, 404

Standard of practice, in malpractice suit for malignant small cell tumor in a child, 665

Staphylococcus aureus

drug-resistant, 144

gamma irradiation of platelet concentrates, lack of efficacy to abrogate bacterial growth, 743

Stem cell leukemia, 32

Stomach, intestinal metaplasia in, brain-type glycogen phosphorylase expression in proliferative zone, and its relationship with carcinogenesis, 181

Streptococcus pneumoniae

ambiguity in identification of, 55 drug-resistant, 144

Supernatant

cryosupernatant, coagulation parameters of ABO group–specific, 379

of peritoneal and pleural effusions, K-ras point mutation detection in, for diagnosis complementary to cytologic examination, 704

Surgery, collagen-induced whole blood platelet aggregation test, for patients undergoing procedures associated with minimal to moderate blood loss, 392

Susceptibility patterns, United States geographic bacteria,

Sweat gland, carcinoma, homologous, of salivary duct, breast, and, 75

T

Targeting, in gene therapy for ovarian carcinoma, 444 T-cell intracellular antigen-1, expression in peripheral T-cell lymphoma, T-cell subset analysis by paraffin section immunohistology for, and correlation of CD4/CD8 results with flow cytometry, 610

T-cell receptor γδ, in peripheral T-cell lymphoma, T-cell subset analysis by paraffin section immunohistology for, and correlation of CD4/CD8 results with flow cytometry, 610

Telomerase expression, in carcinoma of uterine cervix, 153 Teratoma, in children, S82

Testicular tumors, in children, S82

Thermal endometrial ablation, morphologic effects of, 96 Thrombocytopenia, immune, platelet antibody testing for evaluating, 123

Thrombophilia, Russell viper venom time-based whole blood screening test for factor V Leiden detection, 387

Thromboplastin

falsely elevated INR results, owing to sensitivity of a thromboplastin reagent to heparin, 764

highly sensitive, as not improving INR precision, 338 mean International Sensitivity Index in Canadian medical laboratories, 589

minimum lyophilized plasma requirement for ISI calibration, 196

Thrombosis

deep venous, new rapid D-dimer assay for suspected, 748

recurrent, falsely elevated INR results owing to sensitivity of a thromboplastin reagent to heparin, 764

Thrombotic thrombocytopenic purpura, cryosupernatant in treatment of, 379

Thymic carcinoma, CD5 for labeling, 722

Thymidine kinase, in gene therapy for ovarian carcinoma, 451

Thyroid neoplasms

carcinoma, sclerosing mucoepidermoid, with eosinophilia, cytomorphologic features of, 294 in children, S73

Tissue sections, morphologic identification of mycelial pathogens in, 1, 45

Toxin gene, in gene therapy for ovarian carcinoma, 444 Transfusion

gamma irradiation of platelet concentrates, lack of efficacy to abrogate bacterial growth, 743

infection and America's blood supply, a 1998 status report, 659

problems associated with passively transfused blood group alloantibodies, 769

Translocation, chromosomal

in chronic myelogenous leukemia, detection of, 3, 16 in HMGI proteins, in benign mesenchymal tumors, 251

2,2,2-trichloroethyl chloroformate, in amphetamine and methamphetamine derivatization, for gas chromatography electron ionization and chemical ionization mass spectrometric analysis, 527

Trichrome stain, modified, 404

Tuberculosis. See also Mycobacterium tuberculosis mycobacterial infection, histologic parameters predictive of, 331

Tumor suppressor genes, loss of expression of in high-grade but not low-grade non-Hodgkin's lymphomas, 669

in malignant transformation, 445

Turbidimetric immunoinhibition, hemoglobin A_{1c} measured by, evaluation and interference study of, 274

Turcot's syndrome, 521

Twin gestation, 135

U

Umbilical cord, 130

Urticaria pigmentosa, clinical, hematopathologic, and serologic study of, 279

Uterus. See also Cervix, uterine thermal endometrial ablation, 96

V

Vaccines, cancer, 457

Vancomycin-dependent *Enterococcus*, antimicrobial susceptibility testing of clinical isolate of, using D-alanine-D-alanine as growth supplement, 367, 399

Varicella-zoster virus, in skin lesions, virus culture and direct immunofluorescent staining of cytocentrifuged viral transport medium for detection of, 631

Vernix caseosa peritonitis, maternal, with antenatal onset, 320

Virus culture, and direct immunofluorescent staining of cytocentrifuged viral transport medium, for detection of varicella-zoster virus in skin lesions, 631 Von Willebrand disease type 2N, 347

Von Willebrand factor, in factor VIII binding activity, ELISA method for evaluation of, 347

Von Willebrand factor antigen, in cryosupernatant compared with fresh frozen plasma, 379

W

White blood cell count, as indicator of occult bacteremia, absolute neutrophil count compared with, 221

Whole blood platelet aggregation, collagen-induced, for patients undergoing surgical procedures associated with minimal to moderate blood loss, 392

Whole blood screening, for factor V Leiden detection, using Russell viper venom time-based assay, 387

Wilms' tumor, S31

Y

 $\it Yersinia\ enterocolitica, and infection and America's blood supply, 660$

Yolk sac tumors, S82